

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	837	((curve or plot or graph) near2 (fit or fitting)) and (welding or weld)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L2	0	((optimize or optimizing or optimization) near20 (welding or weld)) and "118"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L3	0	(power near10 correction) and (curve or plot or graph) and (welding or weld) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L4	1424	(closed near2 loop) and ((welding or weld) and (ultrasonic or ultrasound))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L5	4	("5435863") or ("5658408") or ("5855706") or ("5846377")).PN.	USPAT	OR	OFF	2006/12/21 16:14
L6	16	(closed near2 loop) and ((welding or weld) and (ultrasonic or ultrasound)) and L5/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L7	8	((curve or plot or graph) near2 (fit or fitting)) and (welding or weld) and "156"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L8	22	((curve or plot or graph) near2 (fit or fitting)) and (welding or weld) and "29"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11

## EAST Search History

L9	64	((optimize or optimizing or optimization) near20 (welding or weld)) and "29"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L10	7	((156/64).CCLS.) and (sonotrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L11	49	((156/64).CCLS.) and (ultrasonic and horn)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L12	7	((((156/64).CCLS.) ((156/73.1).CCLS.) ((156/73.4).CCLS.) ((156/73.3).CCLS.) ((156/73.2).CCLS.) ((156/73.5).CCLS.) ((156/73.6).CCLS.) ((156/358).CCLS.) ((156/359).CCLS.) ((156/360).CCLS.) ((156/366).CCLS.) ((156/367).CCLS.) ((156/378).CCLS.) ((156/379).CCLS.) ((156/580.1).CCLS.) ((156/580.2).CCLS.)) and (weld\$ near3 parameter) and (curve or plot or graph) and (ultrasonic or ultrasound or sonotrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L13	31	"29"/\$.ccls. and (power near2 control) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L14	54	"700"/\$.ccls. and (power near2 control) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L15	11	(error near10 correction) and (curve or plot or graph) and (welding or weld) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L16	100	(power near10 adjust\$5) and (curve or plot or graph) and (welding or weld) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11

## EAST Search History

L17	84	(ultrasound or ultrasonic or friction) and (grewell.in. or frantz.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L18	15	"700"/\$.ccls. and (energy near2 input) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L19	28	"156"/\$.ccls. and (energy near2 input) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L20	82	(closed near4 loop) and (curve or plot or graph) and (welding or weld) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L21	83	(close\$1 near5 loop) and (curve or plot or graph) and (welding or weld) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L22	32	(close\$1 near5 loop) and (curve or plot or graph) and (ultrasonic and bond\$4) and ("29"/\$.ccls. or "156"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L23	4	((("5435863") or ("5658408") or ("5855706") or ("5846377"))).PN.	USPAT	OR	OFF	2006/12/21 16:11
L24	23	"702"/\$.ccls. and (power near2 control) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L25	3	((("6063450") or ("5409732") or ("3001890"))).PN.	USPAT	OR	OFF	2006/12/21 16:11
L26	72	(closed near2 loop) and ((welding or weld) and (ultrasonic or ultrasound)) and "156"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB.	OR	ON	2006/12/21 16:11
L27	135	"29"/\$.ccls. and (power near2 control) and (curve or plot or graph)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11

## EAST Search History

L28	125	(700/212).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L29	165	(156/73.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L30	125	(700/212).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L31	291	((curve or plot or graph) near2 (fit or fitting)) and (welding or weld) and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L32	215	(156/73.4).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L33	214	(156/73.2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L34	255	(156/73.6).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L35	284	(156/360).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11

## EAST Search History

L36	301	(156/366).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L37	300	(156/367).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L38	248	(156/379).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L39	216	branson.asn. and ultrasonics.asn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L40	366	(error near10 correction) and (curve or plot or graph) and (welding or weld)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L41	455	(156/580.2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L42	444	(156/358).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L43	619	(156/580.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11

## EAST Search History

L44	543	(156/359).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L45	715	(156/73.5).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L46	835	(156/378).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L47	1525	(156/64).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L48	1598	(156/73.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L49	5736	((156/64).CCLS.) ((156/73.1).CCLS.) ((156/73.4).CCLS.) ((156/73.3).CCLS.) ((156/73.2).CCLS.) ((156/73.5).CCLS.) ((156/73.6).CCLS.) ((156/358).CCLS.) ((156/359).CCLS.) ((156/360).CCLS.) ((156/366).CCLS.) ((156/367).CCLS.) ((156/378).CCLS.) ((156/379).CCLS.) ((156/580.1).CCLS.) ((156/580.2).CCLS.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/21 16:11
L50	1	ultrasonic.clm. and sonotrode.clm. and generator.clm. and converter. clm. and welding.clm. and duration. clm. and parameter.clm. and actual. clm. and curve.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11

## EAST Search History

L51	493	spiral and wound and abrasive and belt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11
L52	13	spiral with wound with abrasive with belt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/21 16:11